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App. No. 10/529,536
Office Action Dated July 16, 2008

Amendments to the Claims:

This listing of claims will replace all prior versions and listing of claims in the application.

Listing of Claims:

1. (Currently Amended) A two-component developer comprising:

a carrier for electrophotography in which a surface of at least a core material is coated with a resin; and

a toner,

wherein the coating resin contains a fluorine modified silicone resin and an aminosilane coupling agent,

wherein the aminosilane coupling agent is included in a range of 5 to 40 weight parts with respect to 100 weight parts of the coating resin,

wherein the fluorine modified silicone resin is a crosslinked fluorine modified silicone resin obtained by reacting an organic silicon compound containing a perfluoro alkyl group with polyorganosiloxane within a range of 3 to 20 weight parts with respect to 100 weight parts of the polyorganosiloxane, ~~and~~

wherein the toner contains (1) a binding ~~polyester~~ resin ~~obtained by a condensation polymerization between an alcohol component and a carboxylic acid component~~ and (2) wax, and is charged negatively,

wherein the binding resin includes a polyester resin in which at least one molecular weight maximum peak is in a region of 2×10^3 to 3×10^4 in a molecular weight distribution measured with gel permeation chromatography, in which the content of components in a high molecular weight region with a molecular weight of at least 3×10^4 is at least 5% with respect to the entire binding resin, in which the weight-average molecular weight ranges from 10,000 to 500,000, in which a Z-average molecular weight ranges from 20,000 to 5,000,000, in which a ratio between a weight-average molecular weight and a number-average molecular weight (weight-average molecular weight / number-average molecular weight) ranges from 3 to 150, in which a ratio between the Z-average molecular weight and the number-average molecular weight (Z-average molecular weight / number-average molecular weight) ranges from 10 to 2000, in which the melting temperature ranges from 80°C to 150°C measured by a 1/2 method with a

capillary rheometer flow-tester of a constant pushing force type, in which a flow-beginning temperature ranges from 80°C to 120°C, and in which the glass transition point of the resin ranges from 45°C to 68°C, and

wherein the polyester resin is obtained by a condensation polymerization between an alcohol component and a carboxylic acid component.

2. (Previously presented) The two-component developer according to claim 1,

wherein the resin coating layer further comprises conductive microparticles within a range of 1 to 15 weight parts with respect to 100 weight parts of the coating resin.

3. (Canceled)

4. (Previously presented) The two-component developer according to claim 1,

wherein the proportion of the coating resin is within a range of 0.1 to 5.0 weight parts with respect to 100 weight parts of the carrier core material.

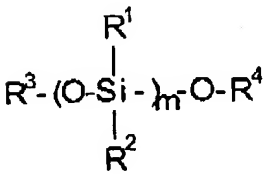
5-7. (Canceled)

8. (Previously presented) The two-component developer according to claim 1,

wherein the organic silicon compound containing a perfluoro alkyl group is at least one compound selected from $CF_3CH_2CH_2Si(OCH_3)_3$, $C_4F_9CH_2CH_2Si(CH_3)(OCH_3)_2$, $C_8F_{17}CH_2CH_2Si(OCH_3)_3$, $C_8F_{17}CH_2CH_2Si(OC_2H_5)_3$, and $(CF_3)_2CF(CF_2)_8CH_2CH_2Si(OCH_3)_3$.

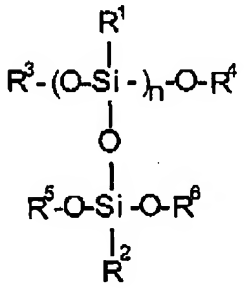
9. (Previously presented) The two-component developer according to claim 1,.

wherein the polyorganosiloxane is at least one selected from Chemical Formulas 1 and 2 below:



···Chemical Formula 1

where R^1 and R^2 denote a hydrogen atom, a halogen atom, a hydroxy group, a methoxy group, or a C1 to C4 alkyl group or phenyl group, R^3 and R^4 denote a C1 to C4 alkyl group or phenyl group, and m denotes an average polymerization degree and is a positive integer,



···Chemical Formula 2

where R^1 and R^2 denote a hydrogen atom, a halogen atom, a hydroxy group, a methoxy group, or a C1 to C4 alkyl group or phenyl group, R^3, R^4, R^5 and R^6 denote a C1 to C4 alkyl group or phenyl group, and n denotes an average polymerization degree and is a positive integer.

10. (Canceled)

11. (Previously presented) The two-component developer according to claim 1,

wherein the aminosilane coupling agent is at least one selected from γ-(2-aminoethyl)aminopropyltrimethoxysilane, γ-(2-aminoethyl)aminopropylmethyldimethoxysilane, and octadecylmethyl[3-(trimethoxysilyl)propyl]ammonium chloride.

12. (Previously presented) The two-component developer according to claim 1, wherein an amine of the aminosilane coupling agent is a primary amine.

13. (Previously presented) The two-component developer according to claim 1, wherein the alcohol component is bisphenol A propylene oxide additive.

14. (Currently amended) The two-component developer according to claim 1, wherein the carboxylic acid component is at least one selected from the group consisting of terephthalic acid, ~~trimellitic acid~~ 1, 2, 4-benzenetricarboxylic acid, succinic acid and fumaric acid.